



225347

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

HSE3-5J

OCT 22 1993

Mr. Ron Steele
Building Manger
205 East Grand Avenue
Chicago, Illinois 60611

RE: Lindsay Light Building
161 East Grand Avenue
Chicago, Illinois

Dear Mr. Steele:

As you may recall, the U.S. Environmental Protection Agency (U.S. EPA) placed twelve thermoluminescent dosimeter (TLD) badges in your building on June 30, 1993 to monitor radiation levels in work spaces and removed them after a month. TLD results for the locations shown on the enclosed figures were as follows:

	TLD #	millirem per hour	millirem per year
	9021	4.29	8,579
	9022	0.27	535
	9023	0.028	56
	9024	0.033	67
	9025	0.037	75
	9026	0.26	514
	9027	0.63	1257
	9028	0.052	104
	9029	0.039	78
Background	9031	0.0046	9
	9032	0.0062	12
	9033	0.031	62

These work space results were compared to background and to the Nuclear Regulatory Commission (NRC) regulations in the new Title 10, Part 20.1301, Code of Federal Regulations of 100 millirem per year and 2 millirem per hour for individual members of the general public. Your TLD results did exceed these relevant NRC levels in five locations.

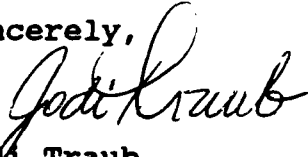
In the opinion of U.S. EPA's Regional Radiation Expert and Superfund Toxicologist, these conditions present a threat to persons working in the contaminated areas. Since this contamination is limited to the indoors, it can not be remediated



under U.S. EPA's Superfund program. The Superfund law usually applies to releases of hazardous substances into the outdoor environment. We do think it would be prudent to decontaminate and whenever possible reduce exposure by limiting exposure times, increasing the distance between work sites and exposure points, and using furniture or other items as absorbers. Also, the Agency for Toxic Substances and Disease Registry (ATSDR) recommended vacating and sealing the President's office on the second floor or remediating it to a radiologically safe level. A copy of ATSDR's recommendation is enclosed, which we understand you are already following. Furthermore, we would like to reiterate that the janitor's supplies should remain away from the chimney.

U.S. EPA would still be willing to advise, review any cleanup plans and survey remediated areas at no charge, if you decide it is prudent to take any action. If you need additional information or want to discuss this matter further, please contact Verneta Simon at (312) 886-3601.

Sincerely,



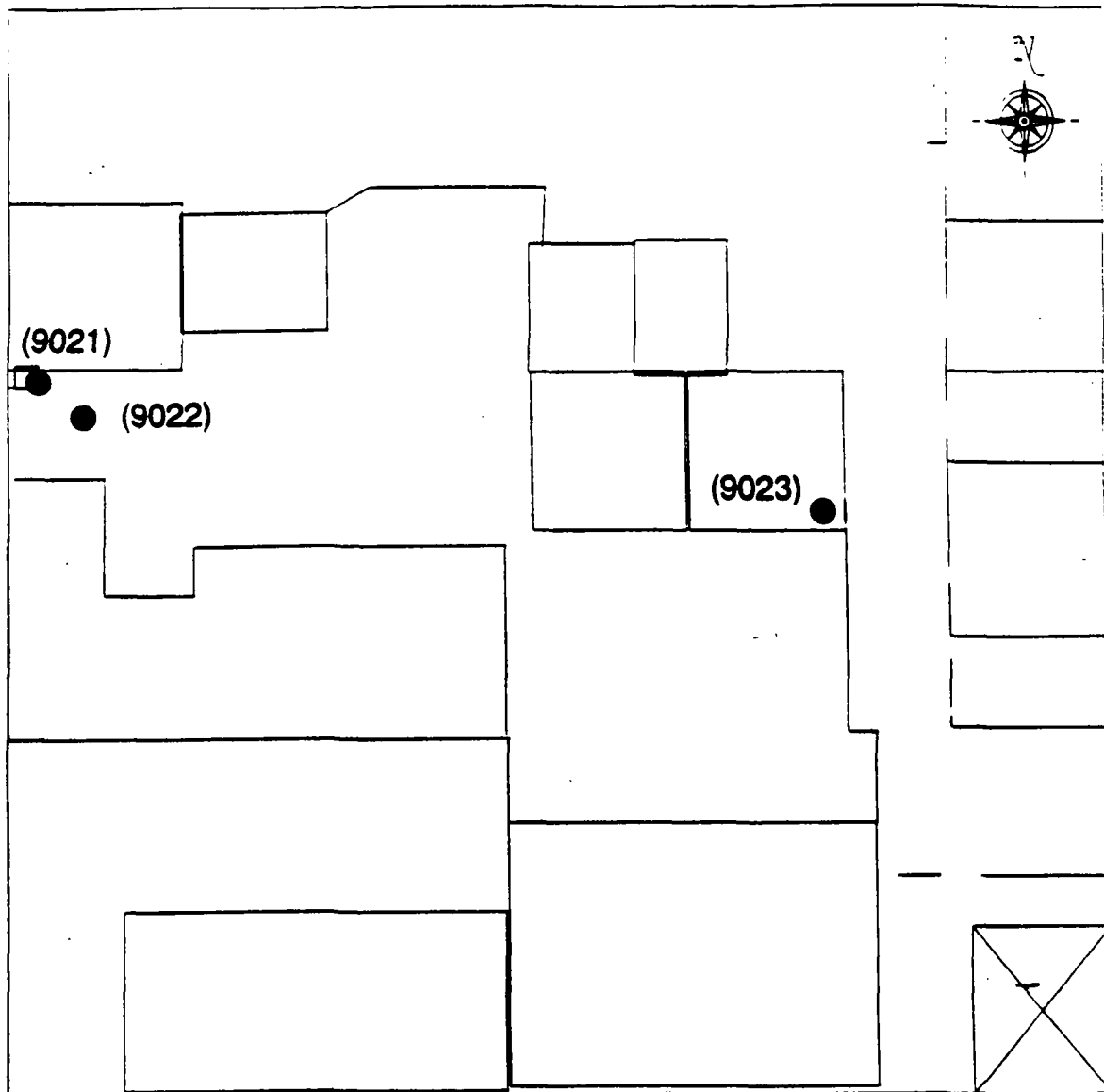
Jodi Traub
Acting Associate Division Director

Enclosures

cc: Candy Morin, Illinois Environmental Protection Agency
Tim Runyon, Illinois Department of Nuclear Safety
Lafayette Robertson, City of Chicago

bcc: Larry Jensen, AT-18J
Marc Radell, CM-3T
Frank Rollins, HSE3-5J
Verneta Simon, HSE3-5J
Heidi Valetkevitch, P-19J
Patricia Van Leeuwen, HSRL-5J

Readings: MILLIREM PER HOUR



☐ TLD Badge (Badge #)

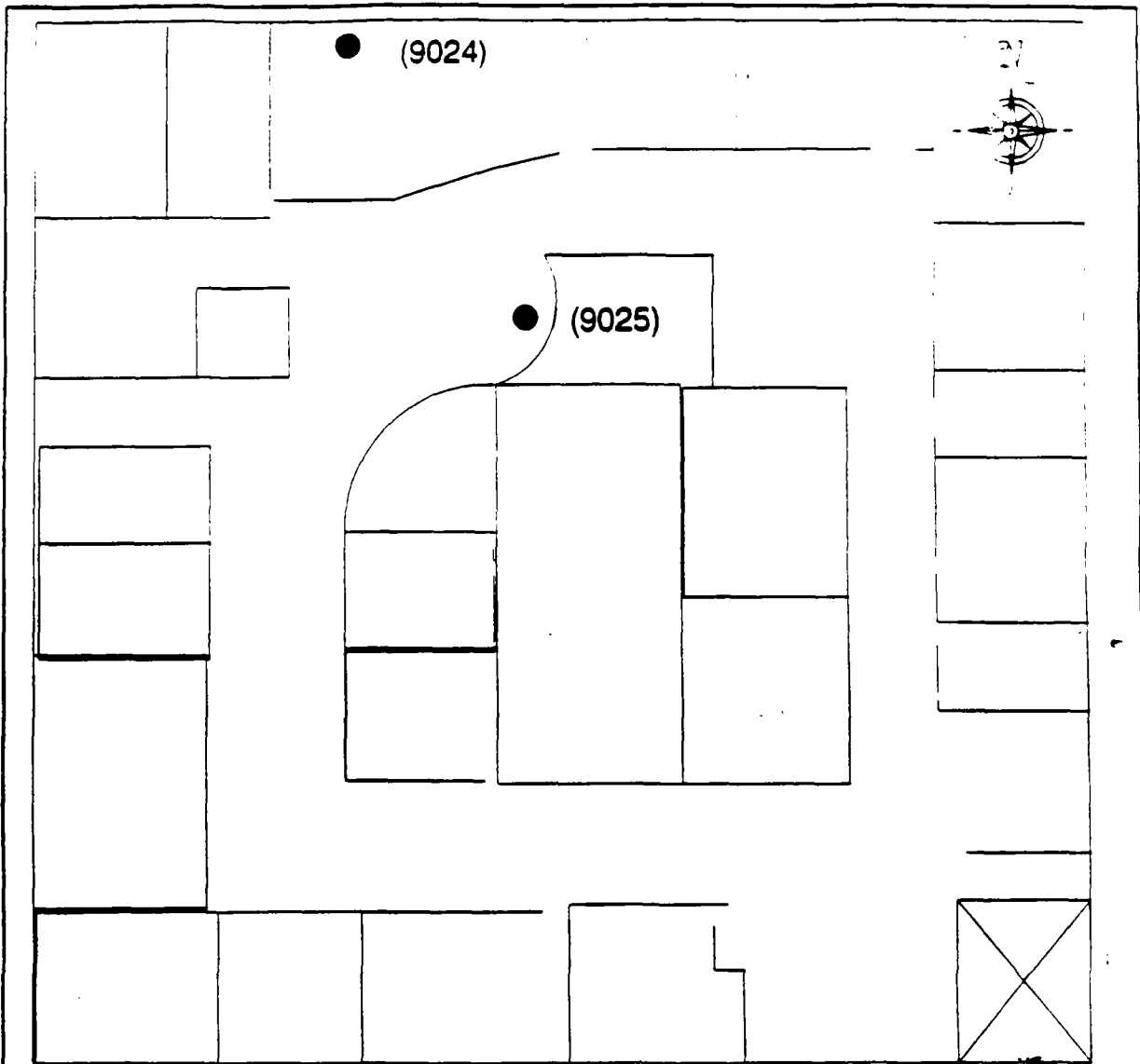
**LEGEND
TLD EXPOSURE
RESULTS**

(9021)=4.28929 mrem/hr
 (9022)=0.26751 mrem/hr
 (9023)=0.02827 mrem/hr



**EPA U.S. EPA REGION V
EMERGENCY AND ENFORCEMENT RESPONSE BRANCH**

TITLE 161 E. Grand Ave. Basement (Optumus) Figure 1		FIGURE #
FIRM Lindsay Light Company		TRAC T05-9305-014
CITY Chicago	STATE IL	SCALE Not to Scale
SOURCE		DATE July 16, 1993
		REVISED



● TLD Badge (Badge #)

LEGEND

TLD Results

Reading: millirem per
hour

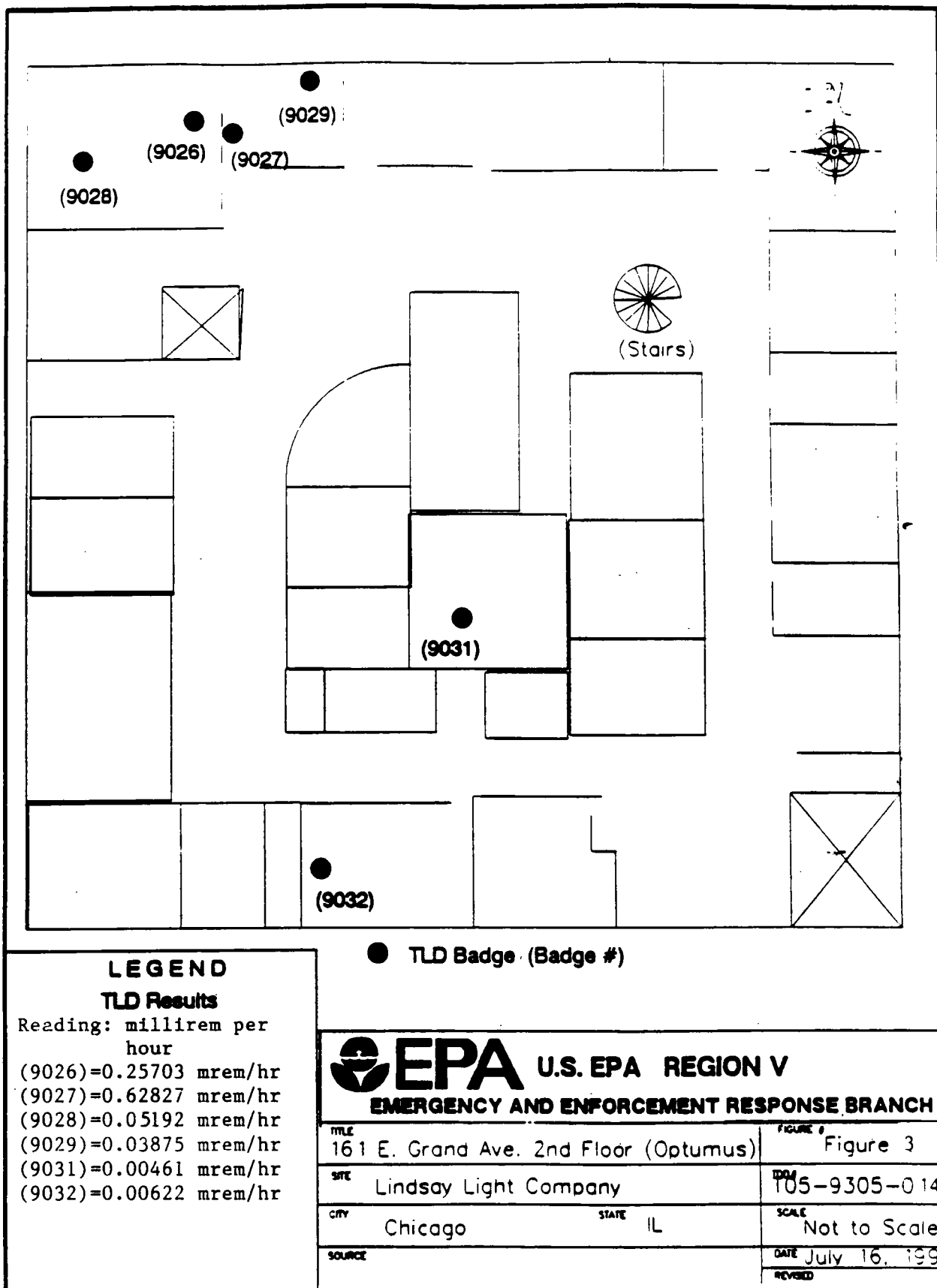
(9024)=0.03364

(9025)=0.03768



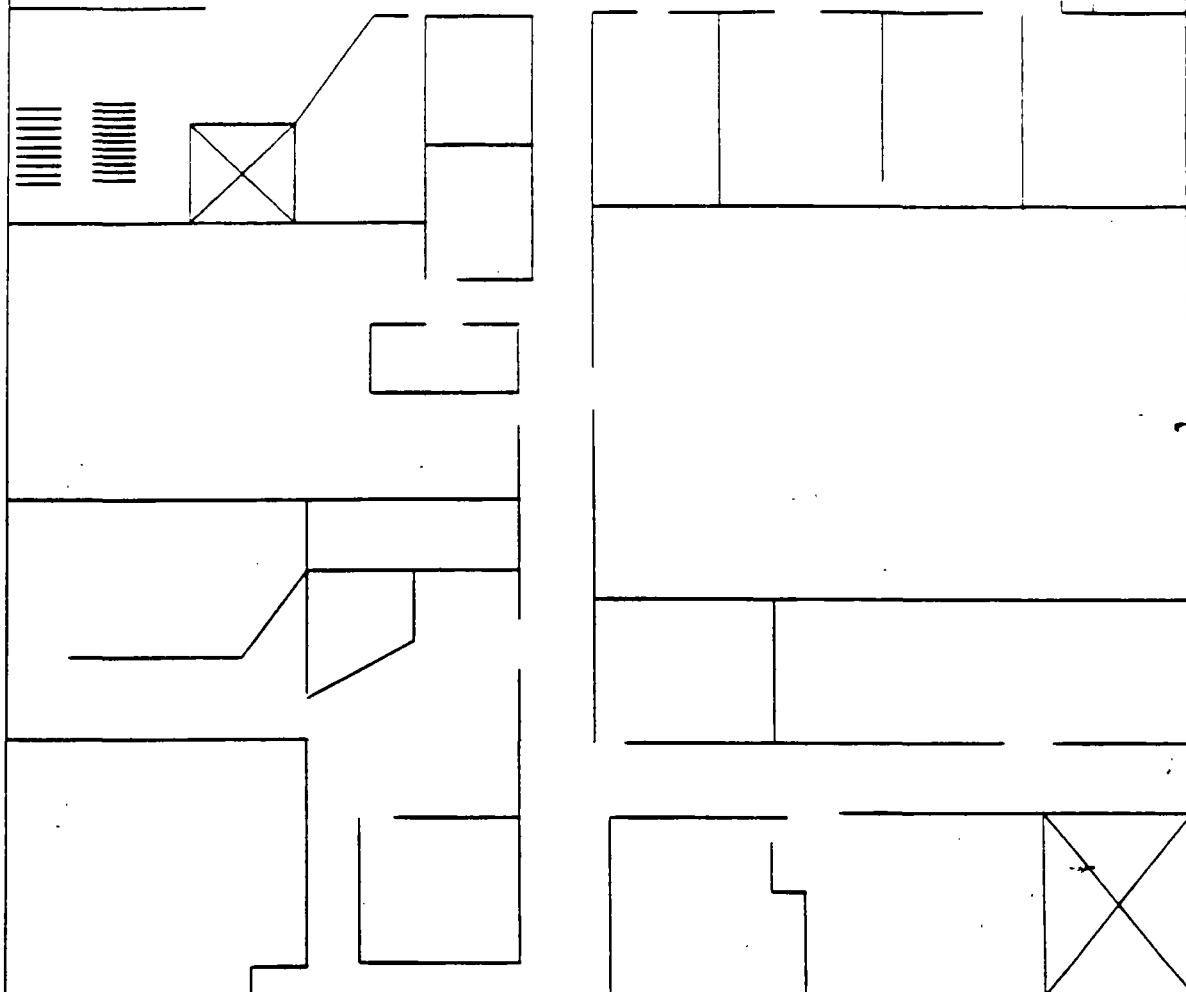
EPA U.S. EPA REGION V
EMERGENCY AND ENFORCEMENT RESPONSE BRANCH

TITLE 161 E. Grand Ave. 1st Floor Readings Optumus		FIGURE # Figure 2
SITE Lindsey Light Co.		SCALE T05-8305-014
CITY Chicago	STATE IL	PAN Not to Scale
SOURCE		DATE
		REVISED



Readings: MILLIREM PER HOUR

● (9033)



● TLD BADGE (Badge #)

LEGEND TLD RESULTS

(9033)=0.03096 mrem/hr



EPA U.S. EPA REGION V
EMERGENCY AND ENFORCEMENT RESPONSE BRANCH

161 E. Grand 3rd Floor (Optumus)	Figure 4
Lindsay Light Company	T05-9305-014
Chicago STATE IL	Not to Scale
	DATE July 16, 1993
	REVISED

ID #: P A C 4

Date: 9/14/93 Time: 8:30 am

Site Name: Lindsey Light City: Chicago Cnty: State: IL

CERCLIS #: Cost Recovery #: 60YL Region: V

Site Status (1) _ NPL _ Federal _ Non-NPL _ RCRA _ Non-Site specific
 (2) _ Emergency Response _ Remedial _ Other

Activities

_ Incoming Call _ Public Meeting _ Health Consult _ Site Visit
 X Outgoing Call _ Other Meeting _ Health Referral _ Info Provided
 _ Conference Call _ Data Review _ Written Response _ Training
 _ Incoming Mail _ Other

Requestor and Affiliation: (1) Vernita Simon, OSC

Phone: 312 886-3601

Address:

City:

State:

Zip Code:

Contacts and Affiliation

() ()
 () ()

1-EPA	2-USCB	3-OTHER FED	4-STATE ENV	5-STATE MLT
6-COUNTY MLTH	7-CITY MLTH	8-HOSPITAL	9-LAW ENFORCE	10-FIRE DEPT
11-POISON CTR	12-PRIV CITZ	13-OTHER	14-UNKNOWN	15-DOH
16-DOE	17-NOAA	18-OTHER STATE	19-OTHER COUNTY	20-OTHER CITY
21-INTL	22-CITZ GROUP	23-ELECT. OFF.	24-PRIV. CO	25-NEWS MEDIA
26-ARMY	27-NAVY	28-AIR FORCE	29-DEF LOG AGCY	30-NRC
31-ATSDR				

_ Health Assessment _ Health Studies _ Tox Info-profile _ Worker Hlth
 _ Petition Assessment _ Health Surveillnc _ Tox Info-Nonprofil _ Admin
 X Emergency Response _ Disease Registry _ Subst-Spec Resch _ Other
 _ Health Consultation _ Exposr Registry _ Health Education

Executive Summary: As a follow-up to the site visit to Lindsey Light, EPA has supplied the results of the TLD monitoring at several locations around the city of Chicago that may have radiological contamination. The TLD results were supplied as a function of exposure per week (24 hour exposure). To equate this to exposure of individuals who may receive excessive levels of exposure, the following procedure was used. I used 2000 hours per year for a worker (50 weeks per year, 40 hours per week). The current exposure limit is 100 millirem per year or 0.05 mrem per hour. Since there are 168 hours in a week, any TLD with an exposure of 8.4 millirem per week was considered excessive (168 x 0.05). Using this procedure, 4 TLDs in the 161 E. Grand Avenue location were considered excessive. These were TLD numbers 9021, 9022, 9026, and 9027. 9021 and 9022 appear to be in the basement and it is unlikely that excessive exposures could occur. However, 9026 and 9027 appear to be within an office on the second floor. I would recommend that either that office be vacated and sealed or the office be remediated to a level that is considered radiologically safe (<100 millirem per year).

Action Required/Recommendations/Info Provided: None at this time.

Signature: Robert L. Williams For Paul A. Chapp, Ph.D. Date: September 14, 1993

CC:

Robert L. Williams, Region V (via email)

RIMB